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(54) EL PHOSPHOR BASED ON DISPERSED ZNS

(57) Abstract:

PURPOSE: To obtain the title phosphor used for an electroluminescent element consisting of a transparent conductive layer, a luminescent layer, and a back electrode, exhibiting excellent luminance and life, by covering a part of the surface of a ZnS phosphor particle with a metal oxide.

CONSTITUTION: ZnS is mixed with Cu, Mn, Al, Mg, etc., as activator and Cl, Br, I, etc., as co-activator. This

mixture is baked in an atmosphere of H₂S to give ZnS phosphor particles, which are treated with an alkoxide of Ti, Al, Si or Zr and hydrolyzed to cover a part of the surface thereof with a metal oxide, such as TiO₂, Al₂O₃, SiO₂ or ZrO₂, in such an amount that the intensity of the Zn element of the ZnS phosphor, determined by X-ray photoelectron spectroscopy, is 30-90% of that of the Zn element of an uncovered ZnS phosphor.

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